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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
(Case No. 219.005-US)

In the Application of: **Yamada et al.**

Serial No: **10/082,247**

Filed: **February 26, 2002**

Title: **PRODUCTION MANAGING SYSTEM OF SEMICONDUCTOR  
DEVICE**

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**POWER OF ATTORNEY BY ASSIGNEE,  
REVOCATION OF ALL PRIOR POWERS OF ATTORNEY  
AND CERTIFICATE UNDER 37 CFR 3.73**

Sir:

The undersigned, being empowered to sign this Power of Attorney by Assignee, Revocation of All Previous Powers of Attorney and Certificate under 37 CFR 3.73 on behalf of Fab Solutions, Inc., the assignee of the entire right, title and interest in the above-referenced application, hereby revokes all prior powers of attorney and hereby appoints Neil A. Steinberg, Reg. No. 34,735, with full power of substitution and revocation to prosecute this application and to transact all business before the United States Patent and Trademark Office (hereinafter "the USPTO") in the above-referenced application.

Fab Solutions, Inc. certifies that it is the assignee of the entire right, title and interest in the above-referenced patent application by virtue of: (1) the assignments from the inventors, Keizo Yamada, Yousuke Itagaki, Takeo Ushiki, and Tohru Tsujide, to NEC Corporation; and (2) the assignment from NEC Corporation to Fab Solutions, Inc.

The inventors executed their assignments on February 15, 2002. On February 26,

2002, the assignments were recorded on Reel 012662, Frame 0019.

NEC Corporation executed its assignment on October 1, 2002. On December 27, 2002, the assignment was recorded on Reel 013620, Frame 0121.

A copy of the aforementioned assignments and recordation documentation are attached hereto.

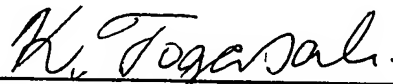
The undersigned has reviewed all of the documents in the chain of title of the above-referenced application and, to the best of the undersigned's knowledge and belief, title is in Fab Solutions, Inc., the assignee identified above.

Please direct all correspondence in the above-referenced patent application to:

Neil A. Steinberg  
2665 Marine Way, Suite 1150  
Mountain View, California 94043  
Tel: 650-968-8079  
Fax: 650-968-8102

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so make are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon.

Date: 2/25/2004

  
\_\_\_\_\_  
Kuniaki Togasaki  
President & Chief Executive Officer  
Fab Solutions, Inc.



MAY 07, 2002

PTAS

Commissioner for Trademarks  
Arlington, VA 22202-3513  
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WASHINGTON, DC 20007-5143



\*102015606A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/26/2002

REEL/FRAME: 012662/0019  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

YAMADA, KEIZO

DOC DATE: 02/15/2002

ASSIGNOR:

ITAGAKI, YOUSUKE

DOC DATE: 02/15/2002

ASSIGNOR:

USHIKI, TAKEO

DOC DATE: 02/15/2002

ASSIGNOR:

TSUJIDE, TOHRU

DOC DATE: 02/15/2002

ASSIGNEE:

NEC CORPORATION  
7-1, SHIBA 5-CHOME  
MINATO-KU  
TOKYO, JAPAN

SERIAL NUMBER: 10082247  
PATENT NUMBER:

FILING DATE: 02/26/2002  
ISSUE DATE:

012662/0019 PAGE 2

ANTIONE ROYALL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

# ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

*name and* NEC Corporation  
*address of* 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan  
*assignee*

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to this invention relating to

*title of* PRODUCTION MANAGING SYSTEM OF SEMICONDUCTOR DEVICE  
*invention*

as set forth in this United States Patent Application

*check one* ☒ executed concurrently herewith  
☐ executed on \_\_\_\_\_  
☐ Serial No. \_\_\_\_\_ Filed \_\_\_\_\_

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of **FOLEY & LARDNER** the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

<b>NAMES AND SIGNATURES OF INVENTORS</b>		
Name: KEIZO YAMADA	Signature: <i>Keizo Yamada</i> (Seal)	Date: Feb. 15, 2002
Name: YOUSUKE ITAGAKI	Signature: <i>Yousuke Itagaki</i> (Seal)	Date: Feb. 15, 2002
Name: TAKEO USHIKI	Signature: <i>Takeo Ushiki</i> (Seal)	Date: Feb. 15, 2002
Name: TOHRU TSUJIDE	Signature: <i>Tohru Tsujide</i> (Seal)	Date: Feb. 15, 2002
Name:	Signature:	Date:
<b>NAMES AND SIGNATURES OF WITNESSES</b>		
Name: HITOKI UKAI	Signature: <i>Hitoki Ukai</i>	Date: Feb. 15, 2002
Name: AKIRA MUTO	Signature: <i>Akira Muto</i>	Date: Feb. 15, 2002

Note: *Prima facie* evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.



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2001-56953

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FAB SOL.

MAY 02, 2003

PTAS

Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
www.uspto.gov

FOLEY & LARDNER  
DAVID A. BLUMENTHAL  
3000 K STREET, N.W., SUITE 500  
WASHINGTON HARBOUR  
WASHINGTON, DC 20007-5143



\*102329402A\*

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CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.  
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ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,  
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/27/2002

REEL/FRAME: 013620/0121  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

NEC CORPORATION

DOC DATE: 10/01/2002

ASSIGNEE:

FAB SOLUTIONS, INC.  
3-5-7 HISAMOTO, TAKATSU-KU  
NISSEI SHINMIZONOKUCHI BLDG. 5F  
KAWASAKI, KANAGAWA 213-0011, JAPAN

SERIAL NUMBER: 10082247  
PATENT NUMBER:

FILING DATE: 02/26/2002  
ISSUE DATE:

SHAREILL COLES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

# PATENT APPLICATION ASSIGNMENT

WHEREAS, NEC Corporation, a Japanese corporation, having its principal place of business at 7-1, Shiba 5-chome, Minato-ku, Tokyo 108-8001, Japan is the owner and assignee of record of the patent application listed below;



WHEREAS, Fab Solutions, Inc., a Japanese corporation, having its principal place of business at Nissei Shinmizonokuchi Bldg. 5F, 3-5-7 Hisamoto, Takatsu-ku, Kawasaki, Kanagawa 213-0011, Japan is desirous of obtaining the entire right, title, and interest in the patent application listed below and invention disclosed therein, and to any United States patents to be obtained therefor;

NOW, THEREFORE, for valuable consideration, receipt of which is hereby acknowledged, NEC Corporation, hereby sells, assigns and transfers to Fab Solutions, Inc., its successors and assigns, the Assignor's entire right, title and interest including rights to recover for past infringement in the below listed patent application, the invention disclosed therein, and to any and all patents for the United States of America, which may be granted thereon, and requests the Director- U.S. Patent and Trademark Office to issue any Letters Patents granted upon the invention set forth in said Application to the Assignee herein, its successors and assigns; and Assignor will execute without further consideration all papers deemed necessary by the Assignee in connection with said United States patent application when called upon to do so by the Assignee.

<u>Serial No.</u>	<u>Filing Date</u>
	(Year.Month.Day)

10/082247	2002.02.26
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IN WITNESS WHEREOF, NEC Corporation has executed this Assignment by proper persons duly authorized.

Attest: 	<p>NEC Corporation</p> <p></p> <p>Masao Maruyama</p> <p>Chief Manager</p> <p>Planning Division</p> <p>Intellectual Asset Operations Unit</p> <p>Date: October 1, 2002</p>
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**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I HEREBY DECLARE:

THAT my residence, post office address, and citizenship are as stated below next to my name;

THAT I believe I am the original, first, and sole inventor (if only one inventor is named below) or an original, first, and joint inventor (if plural inventors are named below or in an attached Declaration) of the subject matter which is claimed and for which a patent is sought on the invention entitled

PRODUCTION MANAGING SYSTEM OF SEMICONDUCTOR DEVICE

the specification of which (check one)

  X   is attached hereto.

       was filed on \_\_\_\_\_ as United States Application Number  
or PCT International Application Number \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable).

THAT I do not know and do not believe that the same invention was ever known or used by others in the United States of America, or was patented or described in any printed publication in any country, before I (we) invented it;

THAT I do not know and do not believe that the same invention was patented or described in any printed publication in any country, or in public use or on sale in the United States of America, for more than one year prior to the filing date of this United States application;

THAT I do not know and do not believe that the same invention was first patented or made the subject of an inventor's certificate that issued in any country foreign to the United States of America before the filing date of this United States application if the foreign application was filed by me (us), or by my (our) legal representatives or assigns, more than twelve months (six months for design patents) prior to the filing date of this United States application;

THAT I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above;

THAT I believe that the above-identified specification contains a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention, and sets forth the best mode contemplated by me of carrying out the invention; and

THAT I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I HEREBY CLAIM foreign priority benefits under Title 35, United States Code § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number	Country	Foreign Filing Date	Priority Claimed?	Certified Copy Attached?
056953/2001	Japan	1/3/2001	yes	yes

I HEREBY CLAIM the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

U.S. Provisional Application Number	Filing Date

I HEREBY CLAIM the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Application Number	Parent Filing Date	Parent Patent Number

I HEREBY APPOINT the following registered attorneys and agents of the law firm of FOLEY & LARDNER to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, and to transact all business in the United States Patent and Trademark Office connected therewith:

STEPHEN A. BENT	Reg. No. 29,788
DAVID A. BLUMENTHAL	Reg. No. 26,257
BETH A. BURROUS	Reg. No. 36,087
ALAN I. CANTOR	Reg. No. 28,163
WILLIAM T. ELLIS	Reg. No. 26,874
JOHN J. FELDHAUS	Reg. No. 28,822
MICHAEL D. KAMINSKI	Reg. No. 32,904

LYLE K. KIMMS	Reg. No. 34,079
KENNETH E. KROSIN	Reg. No. 25,736
JOHNNY A. KUMAR	Reg. No. 34,849
JACK LAHR	Reg. No. 19,821
GLENN LAW	Reg. No. 34,371
PETER G. MACK	Reg. No. 26,001
STEPHEN B. MAEBIUS	Reg. No. 35,264
BRIAN J. MC NAMARA	Reg. No. 32,789
SYBIL MELOY	Reg. No. 22,749
RICHARD C. PEET	Reg. No. 35,792
GEORGE E. QUILLIN	Reg. No. 32,792
ANDREW E. RAWLINS	Reg. No. 34,702
BERNHARD D. SAXE	Reg. No. 28,865
CHARLES F. SCHILL	Reg. No. 27,590
RICHARD L. SCHWAAB	Reg. No. 25,479
MICHELE M. SIMKIN	Reg. No. 34,717
HAROLD C. WEGNER	Reg. No. 25,258


and I request that all correspondence be directed to:

RICHARD L. SCHWAAB  
 FOLEY & LARDNER  
 Washington Harbour  
 3000 K Street, N.W., Suite 500  
 Washington, D.C. 20007-5109

Telephone: (202) 672-5300  
 Facsimile: (202) 672-5399

I UNDERSTAND AND AGREE THAT the foregoing attorneys and agents appointed by me to prosecute this application do not personally represent me or my legal interests, but instead represent the interests of the legal owner(s) of the invention described in this application.

I FURTHER DECLARE THAT all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Name of first inventor	<u>KEIZO YAMADA</u>
Residence	<u>Tokyo, Japan</u>
Citizenship	<u>Japan</u>
Post Office Address	<u>c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku,</u>
Inventor's signature	<u><i>Keizo Yamada</i></u>  <u>Tokyo, Japan</u>
Date	<u>February 15, 2002</u>

Name of second inventor YOUSUKE ITAGAKI  
 Residence Tokyo, Japan  
 Citizenship Japan  
 Post Office Address c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku,  
 Inventor's signature Yousuke Itagaki Tokyo, Japan  
 Date February 15, 2002

Name of third inventor TAKEO USHIKI  
 Residence Tokyo, Japan  
 Citizenship Japan  
 Post Office Address c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku,  
 Inventor's signature Takeo Ushiki Tokyo, Japan  
 Date February 15, 2002

Name of fourth inventor TOHRU TSUJIDE  
 Residence Tokyo, Japan  
 Citizenship Japan  
 Post Office Address c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku,  
 Inventor's signature Tohru Tsujide Tokyo, Japan  
 Date February 15, 2002

Name of fifth inventor \_\_\_\_\_  
 Residence \_\_\_\_\_  
 Citizenship \_\_\_\_\_  
 Post Office Address \_\_\_\_\_  
 Inventor's signature \_\_\_\_\_  
 Date \_\_\_\_\_